

DOLGOV, P.P., inshener.

Selecting an economical system of hydroelectric power plants
operating under daily regulation. Gidr.stroi 23 no.6:30-34 '54.
(Hydroelectric power stations) (MLRA 7:9)

GORNISHTSEYN, Valentin Moiseyevich; DOLGOV, P.P., retsenzent; MEL'NIKOV,
N.A., red.; LARIONOV, G.Ye., tekhn.red.

[Efficient conditions of the operation of hydro stations in
electric networks] Naivygodneishie reshimy raboty gidrostantsii
v energeticheskikh sistemakh. Moskva, Gos.energ.isd-vo, 1959.
247 p.

(MIRA 12:4)

(Hydroelectric power stations)

DOLGOV, P. P.

Approximate calculation of water level variations in the upper
and lower pools of hydroelectric power stations with a daily
regulation cycle. Trudy LPI no.208:168-174 '60. (MIRA 13:9)
(Hydroelectric power stations)

DOIGOV, P.P., kand.tekhn.nauk, dotsent

Method of economic evaluation of different variants of boiler-
turbine equipment. Energomashinostroenie 8 no.3:41-42 Mr '62.
(MIRA 15:2)

(Electric power plants—Costs)

BOLOTOV, V.V., doktor tekhn.nauk, prof.; GUSEV, V.N., kand.tekhn.nauk,
dotsent; DOLGOV, P.P., kand.tekhn.nauk, dotsent

"Optimum operation of hydroelectric power stations in
consolidated electric power systems" by V.M. Gernshtein.
Reviewed by V.V. Bolotov, V.N. Gusev, and P.P. Dolgov.
Elektrichestvo no.5:93-95 My '62. (MIRA 15:5)
(Interconnected electric utility systems)
(Hydroelectric power stations)
(Gernshtein, V.M.)

BOLOTOV, V.V.; GUSEV, V.N.; DOLGOV, P.P.

Concerning V.M. Gornstein's reply to the review of "Optimum
operating modes of hydroelectric power stations in consolidated
power systems." Elektrichestvo no.12:84 D '62. (MIRA 15:12)
(Hydroelectric power stations)
(Interconnected electric utility systems) (Gornstein, V.M.)

1 34846-65 EMP(s)/EPA(s)-1/EMI(m)/EPF(c)/EPF(h)-2/EMP(v)/EPA(w)-1/T/EMP(t)/EMP(b)/
 ENA(c) Pab-10/Pq-4/Pr-4/Ps-4/Pt-10/Pu-4 JD/WM/HM/WH
 5/0286/65/000/006/0053/0053
 ACCESSION NR: AP5008540

AUTHOR: Tsitron, D. G. Dolgov, P. V.; Yanushovich, M. V.

TITLE: A method for sealing glass to metal Class 32, No. 169220

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 6, 1965, 53

TOPIC TAGS: metal seal, glass to metal seal

ABSTRACT: This Author's Certificate introduces a method for sealing glass to metal by using a high frequency alternating current. A good connection is provided and oxidation at the glass-to-metal seal is prevented by connecting one pole of the hf generator to the body of the metal part with the glass pressed into it; and the other pole to the electrode which is to be sealed.

ASSOCIATION: none

SUBMITTED: 27Apr63

ENCL: 00

SUB CODE: IE, MM

NO REF SOV: 000

OTHER: 000

Cord 1/1

Rezvay
AUTHOR: Dolgov, S.

107-58-5-17/32

TITLE: Portable Record Player (Portativnyy proigryvatel')

PERIODICAL: Radio, 1958, Nr 5, pp 31 - 32 (USSR)

ABSTRACT: The article contains a description of a portable record player which may be assembled by inexperienced radio amateurs. The amplifier consists of one double triode "6N2P" and the output tube "6P14P", four "DG-Ts27" diodes and one or two "1-GD9" loudspeakers. The sound pick-up "ZPU-1" and the two-speed electric motor "DAG-1" or any other similar sound pick-up or motor may be used. The circuit diagram of the amplifier is shown in figure 1. The amplifier may also be used for receiving radio broadcasts if a crystal receiver is added. In some cases it might be necessary to add an HF stage, consisting of a pentode "6K3", "6Zh1P" and others. The article further contains assembling instructions for this record player. There are four figures.

AVAILABLE: Library of Congress

Card 1/1

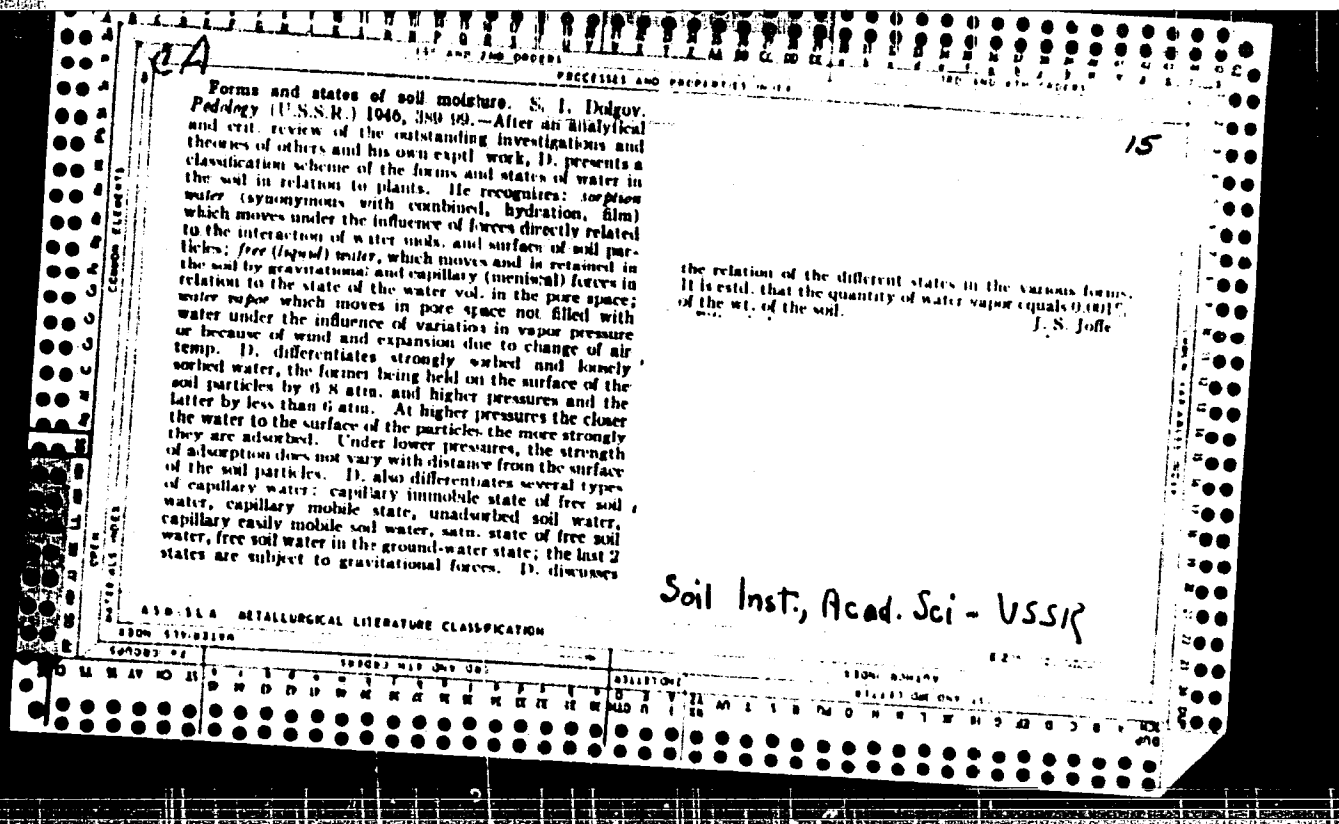
15

cu

Mechanical analysis of soil by the pipet method. N. P. KARPINAKH AND S. I. DOLGOY. *N.ii. Agrov.* 1, 1-42(1930).—Results agree well with those of Schoene's method, but differ considerably from those of Williams' method in the coarse and medium fractions.

H. C. A.

ASS-56A METALLURGICAL LITERATURE CLASSIFICATION



1. DOLGOV, S. I.

2. USSR (600)

Study of Mobility of Soil Moisture and of Its Availability for Plants.
USSR Press of the Academy of Sciences, Moscow-Leningrad, 1942, 208 pages.

9. Meteorologiya i Gidrologiya, No. 3, 1949.

Report U-2551, 30 Oct 52

DOLGOV, S. I.

"Syphon Method of Granulometric Analysis of Soil."

Pochvoved., No 9, 1949.

CH

15

The conductivity method of determining the salinity of soils and ground waters. S. I. Dolgov and A. A. Zhitkova. *Pochвоведение* (U.S.S.R.) No. 7, 66-77 (1952).—To establish the relation between elec. cond. and salt concn. of soil-water exts., the specific conductance was detd. on 62 water exts. of various salinized-desalinized soils on which the salt content was detd. by the standard chem. methods. From the data obtained a conversion coeff. was established for 12 grades of salt concn. This coeff. is calcul. by dividing the concn. of the water ext. (g.-equiv. ions per l.) by the sp. conductance. Thus, by multiplying the figure on sp. conductance of any soil-water ext. or ground water by the coeff. one can read from the chart of the 12 grades the salt concn. expressed in g.-equiv. It is shown that for soils up to 10% concn. of salts the agreement with standard analysis is very good. The aspects of various salts and temp. effects are discussed.

I. S. Joffe

DOLGOV, S. I., MARKOVSKIY, V. N.

Soils - Analysis

Quick method for determining salinity of soils and underground waters.
Les. Khoz. 5, no. 9, 1952

Monthly List of Russian Accessions, Library of Congress, November 1952. UNCLASSIFIED.

DOLGOV, S.I.; PROTSEROV, A.V.

Soil Moisture

Reserves of soil moisture and saturation irrigation. Sov. agron. 10, no. 10, 1952.

9. Monthly List of Russian Accessions, Library of Congress, ~~December 1952~~ ¹⁹⁵³. Unclassified.

1. DOLGOV, S. I.
2. USSR (600)
4. Soils - Classification
7. Imperative to set about making descriptive handbooks of regional soils. Pochvovedenie no.11, 1952.
9. Monthly List of Russian Accessions, Library of Congress, March 1953. Unclassified.

DOLGOV, S.I. and RIDIGER, V.R.

"Using Deep Mole Drains in Reclaiming Alkaline Soils," Dokl. Ak. Sel'khoz. 17,
No.8, 1952

DOLGOV, S.I.

DOLGOV, S.I., doktor sel'skokhozyaystvennykh nauk; SUKHENKO, V.F., ag-
ronom.

Effectiveness of productive leaching of saline soils of the Mili
Steppe in the Kura-Aras Lowlands. Gidr. i mel. 6 no.8:51-62 Ag '54.
(MLRA 7:9)

(Mili Steppe--Soil conservation) (Soil conservation--Mili Steppe)

DOLGOV, S. I.

1.6 203

Dolgov, S. I. Nekotorye diskussionnye voprosy v knige A. A. Roda "Pochvennaya Vлага." [Discussion of Roda's "Soil moisture."] *Pochvenovedenie*, Moscow, No. 11:66-65, Nov. 1954. 1 refs., 2 figs. - DEC - A very detailed and critical review of Roda's Soil moisture which is a comprehensive treatise on soil hydrology. The reviewer discusses the significance of soil moisture in soil formation, the hygroscopic properties of soils, the introduction of the concepts of capillary moisture capacity and moisture absorption capacity, the role of tension forces in retention of soil moisture, surplus soil moisture for plants, the transition of free soil moisture from one state to another, etc. *Subject Headings:* 1. Soil moisture 2. Reviews. I. Roda, A. A. -I.L.D.

551.579.5:619.941

SHRAG, V.I. (Moskva); DOLGOV, S.I. (Moskva); Zaydel'man, F.R. (Moskva).

Problem of irrigating soils with a pebbly substratum [with German
summary in insert]. Pochvevedenie no.5:67-79 My '56. (MLRA 9:9)
(Irrigation) (Soils)

DOLGOV, S.I.

USSR/Cultivated Plants--General Problems

M-1

Abs Jour : Ref Zhur .. Biol., No 1, 1958, No 1409

Author : S. I. Dolgov

Inst : Not Given

Title : The Distribution of Agricultural Methods Over the Territory of the USSR.

Orig Pub : Zemledeliye, 1956, No 10, 19-27

Abstract : A group of workers of the institutes of the Academy of Sciences of USSR, commissioned by Gosplan, The State Planning Committee of the Council of Ministers USSR/ has accomplished the task of dividing the territory of USSR into natural-economic districts for the purpose of the rational distribution of agricultural production. Based on the agricultural soil map of the provinces, prepared in the process of this work, the author-together with N.N. Rozov - has marked 25 important agricultural provinces on the territory of USSR, where agriculture is well developed. Brief soil-climatic and agricultural characteristics of each province are given. Enclosed are schematic maps of the agricultural soil and farming provinces.

Card : 1/1

DOLGOV, S.I.

Aridity of the steppe regions of the Altai Territory and measures
for overcoming it. Izv. AN SSSR. Ser. biol. no. 4:480-494 J1-Ag '57.
(MIRA 10:8)

1. Pochvennyy institut Akademii nauk SSSR
(ALTAI TERRITORY--AGRICULTURE) (SOIL MOISTURE)

USSR / Soil Science. Physical and Chemical Properties. J
of Soils.

Abs Jour: Ref Zhur-Biol., No 21, 1958, 95697.

Author : Dolgov, S. I.

Inst : Not given.

Title : Basic Regularity of Soil Moisture and Its Value
in the Life of Plants.

Orig Pub: V. sb.: Biol. osnovy oroshayem. zemeld., M., AN
SSSR, 1957, 635-652.

Abstract: Soil moisture in relation to the growth of plants
is divided into 6 categories: 1. significant re-
serve of moisture in the soil unavailable for
plants; its upper limit lies near the maximal hy-
groscopicity. 2. Moisture available with diffi-
culty, unproductive, can sustain the viability
only of well-covered points of plant growth. The

Card 1/4

USSR / Soil Science. Physical and Chemical Properties
of Soils.

J

Abs Jour: Ref Zhur-Biol., No 21, 1958, 95697.

Abstract: upper limit of this moisture is soil moisture to resist withering. 3. Available moisture but of low productivity. The upper limit is soil moisture which inhibits plant's growth. 4. Normally-available and normally-productive moisture for plants, assuring normal growth and development of plants. The upper limit is the least moisture capacity of soils (LM). 5. Moisture easily available for plants, assuring luxurious plant growth. The upper limit differs for various plants, but commonly lies near that saturation of water by the soil in which close to 15% of the soil volume is air. 6. Excess, but easily-available moisture. Owing to difficult gaseous exchange, the air supply of the soil microorganisms and roots of the

Card 2/4

USSR / Soil Science. Physical and Chemical Properties J
of Soils.

Abs Jour: Ref Zhur-Biol., No 21, 1958, 95697.

Abstract: plants is difficult. With such a moisture content, only plants with air conducting tissue can develop. Volume of LM limits the readily active condition of soil moisture, which assures luxurious growth of the vegetative mass of the plants, to a less active condition, which assures only normal growth and development. Soil tests show that with the soil moisture below LM the activity of the moisture decreases; the character of the soil moisture and its salt composition changes. With moisture below LM, the exchange reactions between the NaCl and the carbonates of the soil proceed more intensively, formation of soda occurs more intensively, Cl is absorbed. With moisture above LM, these reactions proceed very slowly. The

Card 3/4

USSR / Soil Science. Physical and Chemical Properties of Soil. J

Abs Jour: Ref Zhur-Biol., No 21, 1958, 95697.

Abstract: effect of fertilizers can be positive or negative depending on the moisture of the soils. Basic criterion of soil moisture is volume of LM. The degree of soil moisture during crop cultivation must not fall below the moisture point which inhibits plant growth (70% LM) and must not exceed harmful saturation of water by the soils. The air residue must not be below 15-20% of the soil volume. Bib. 20 titles. -- N. G. Minashina.

Card 4/4

USSR/Soil Science - Cultivation. Malioration. Erosion.

J-5

Abs Jour : Ref Zhur • Biol., No 9, 1958, 39048

Author : Dolgov, S.I.

* Inst

Title : The system of Measures to be Taken in the Fall in Order to Replenish Stocks of Soil Moisture for the Spring of 1958 in the Steppe Areas of the Altay Kray.

Orig Pub : Zemledeliye, 1957, No 9, 3-9

Abstract : No abstract.

* Pochvennyy institut Akademii Nauk SSSR.

Card 1/1

VERSHININ, Petr Vasil'yevich; ~~DOLGOV~~ S.I., doktor sel'skokhoz.nauk, red.;
GOLOVNIN, M.I., red. izd-va; KRUGLIKOVA, N.A., tekhn.red.

[Soil structure and conditions for its formation] Pochvennaia
struktura i uslovia ee formirovaniia. Moskva, Izd-vo Akad.nauk
SSSR, 1958. 187 p. (MIRA 12:2)

(Soil physics)

DOLGOV, S.I., doktor sel'skokhozyaystvennykh nauk

~~Methodology of field tests conducted under typical conditions.~~

Zemledelie 6 no.10:32-40 0 '58.

(MIRA 11:11)

(Agriculture--Experimentation)

S.T. Dolgov

3(2):30(1)

PHASE I BOOK EXPLOITATION

SOV/2039

Abduselya meak SSSR, Pochvennyy Institut Ia. V. V. Dokuchayeva
Pochvennyy s'yedek, rukovodstvo po pol'yam isledovaniy i
kartirovaniyu pochv (Soil Surveying: A Manual on Field Surveying
and Mapping of Soils) Moscow, Izdatel'stvo AN SSSR, 1959. 346 p.
7,000 copies printed. Errata slip inserted.

Reep. Ma.: I.V. Tyurin, Akademik, I. P. Gerasimov, Akademik, I.
Ye. B. Ivanova, Professor, and V. A. Mosin, Candidate of Sciences,
Ed. of Publishing House: V. Ye. Markov. Tech. Ed.: I. P. Kus'min,
PUBLISHER: This book is intended for students and practitioners of
soil science and land utilization. It will also be of interest
to geographers and cartographers engaged in soil surveying and
mapping projects.

COVERAGE: This work on soil surveying was prepared by a group of
scientists of the Department of Soil Geography and Cartography
of the Pochvennyy Institut AN SSSR (Soil Institute, AS USSR).
The book discusses the methods used in both general and special-
purpose surveys. The basic aim of all operations is to raise
agricultural productivity and introduce widespread utilization.
The book includes representative maps and samples of the forms
and reports to be used by the soil scientist. No personalities
are mentioned. There are 46 Soviet references.

Soil Surveying (Cont.)

SOV/2039

PART II

- Ch. 1. Soil Studies as Related to Land Use and Agriculture
Planning in Kolhoz'ses and Sovkhoz'ses (A.B. Malysheva) 171
- Ch. 2. The Soil-Reclamation Land Studies for Irrigation
Purposes (A.B. Malysheva) 190
- Ch. 3. Soil Studies for Drainage Purposes (A.P. Petrov) 235
- Ch. 4. Specific Features of Soil Surveys for Forestry
Purposes (V.M. Sidorov) 263
- Ch. 5. Soil Studies as Related to the Planning of the
Reclamation of Agricultural Forestry Work (A.A. Terodina) 287

Supplement:

- 1. Methods for studying the water-physical properties of soils
and groundwaters (Ye. V. Istapov and S.I. Dolgov) 299
- 2. The determination of rock content in soil surveys
(A.P. Petrov) 335

Card 6/7

SMIRNOVA, S.I.; DOLGOV, S.I.

Representativeness of observations on soil moisture in the Cis-caucasian steppe province. Trudy TSIP no.107:3-22 '61.

(MIRA 14:5)

, (Rostov Province--Soil moisture)

FRIDLAND, V.M.; DOLGOV, S.I.

Effect of the mineralogical composition of soils on their moisture characteristics. Dokl.AN SSSR 138 no.5:1187-1189 Je '61.
(MIRA 14:6)

1. Pochvennyy institut im. V.V.Dolbichayeva AN SSSR. Predstavleno akademikom N.V.Tyurinym.
(Soil moisture) (Soils--Composition)

DOLGOV, S.I.

Hydrological constants of soils. Pochvovedenie no.2:101-105 P
'63. (MIRA 16:3)
(Soil moisture)

LICHMANOV, B.V.; DOLGOV, S.I.

Effect of shelterbelts on the distribution of humus and carbonates in the soils of the Kulunda Steppe. Pochvovedenie no.9:11-18 S '64.

(MIRA 17:12)

1. Pochvennyy institut imeni V.V.Dokuchayeva AN SSSR, Moskva. SSSR.

SMIRNOVA, D.I.; POLKOV, S.I.

Selection of permanent places for determining moisture reserves
characterizing the soil moisture of a farming area. Trudy TSIP
no.145:30-41 '65. (MIRA 18:10)

KISELEV, V.I.; Prinsipal uchastiye DOLCOV, S.N., starshiy konstruktor

Remote hydrologic electric depth indicator. Priborostroenie no.1:
29-30 Ja '62. (MIRA 15:1)

(Electric meters)

DOLGOV, S.P.

More about cleanliness on railroad tracks. Put' i put. khoz.
9 no.3:40 '65. (MIRA 18:6)

1. Nachal'nik distantsei puti, stantsiya Bryansk II, Moskovskoy
dorogi.

SAL'NIKOV, V., inzh.; DOLGOV, V., inzh.; DJDNIKOV, V.; CHIVANOV, V.;
VAL'KOV, K.

Exchange of experience. Avt.transp. 42 no.12:49-51 D '64.
(MIRA 18:1)

DOLGOV, V., inzh. (Leningrad); MAGRACHEV, A., inzh. (Leningrad); PUPKO,
I., inzh. (Leningrad)

The "Golos-9" voice tone device, Radio no.5:45-46 My '65. (MIRA 18:5)

DOLGOV, U A.

MINERALOGICAL ASSOCIATION, INTER-
NATIONAL - Third General Meeting -
Washington, D.C. 17-20 Apr 62

DOBOV, S. P. - Mineralogical Museum Soviet
classification

DOBOV, S. P. - Institute of Mineralogy,
Geochemistry and Crystallography of the
USSR Academy of Sciences USSR 1960
position. "Association of metamorphic
minerals in certain interlayered bodies of
leucocratic granites"

DOBOV, S. P. - Institute of Geology
of Mineral Deposits, Petrography, Mineralogy,
and Geochemistry, Academy of Sciences USSR
1959 position

DOBOV, S. P. - "The jadeite
of the Eastern Sayan deposits"

DOBOV, U. A., Novosibirsk - "Genesis of
inclusions based on the study of fluid
inclusions"

DOBOV, U. A. - Institute of Geology of
Mineral Deposits, Petrography, Mineralogy
and Geochemistry, Academy of Sciences USSR -
"New data on minerals of the P. group from
the Cu-M deposits of the USSR"

DOBOV, U. A. - Institute of Geology and
Geochemistry, Siberian Department, Academy of
Sciences USSR, Novosibirsk - "Minerals on the
scandides of blanch of 'Kavkazit'"

DOBOV, U. A., Prof., Leningrad
Mining Institute 1960 position

DOBOV, U. A., Prof., Leningrad
Academy of Sciences, Novosibirsk, Siberia -
"Changes in pressure conditions during the
volcanic process as exemplified in Georgia"

DOBOV, U. A., Prof., Leningrad
Academy of Sciences, Novosibirsk, Siberia -
"Mineralogy and origin of the various types of
deposits"

DOBOV, U. A., Prof., Leningrad State
University, Chair of Geochemistry 1960 position

DOBOV, U. A., Prof., Leningrad State
University, Chair of Geochemistry 1960 position

DOBOV, U. A., Prof., Leningrad State
University, Chair of Geochemistry 1960 position

DOBOV, U. A., Prof., Leningrad State
University, Chair of Geochemistry 1960 position

DOBOV, U. A., Prof., Leningrad State
University, Chair of Geochemistry 1960 position

DOBOV, U. A., Prof., Leningrad State
University, Chair of Geochemistry 1960 position

DOBOV, U. A., Prof., Leningrad State
University, Chair of Geochemistry 1960 position

DOBOV, U. A., Prof., Leningrad State
University, Chair of Geochemistry 1960 position

DOBOV, U. A., Prof., Leningrad State
University, Chair of Geochemistry 1960 position

DOBOV, U. A., Prof., Leningrad State
University, Chair of Geochemistry 1960 position

DOBOV, U. A., Prof., Leningrad State
University, Chair of Geochemistry 1960 position

DOBOV, U. A., Prof., Leningrad State
University, Chair of Geochemistry 1960 position

DOLGOV, V.A., inzh. (Bryansk)

TEM1 diesel locomotive manufactured at the Bryansk Plant. Elek. 1
tepl. tiaga 2 no.8:32-33 Ag '58. (MIRA 11:9)

1. Nachal'nik byuro teplovozostroyeniya SKTB mashinostroitel'nogo
Bryanskogo zavoda.
(Bryansk--Diesel locomotives)

1.1100

27080
3/123/61/000/015/014/032
A004/A101

AUTHORS: Dolgov, V. A., Kuzinets, S. A.

TITLE: Production of rims and blades of radial turbines

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 15, 1961, 14, abstract 15B82 (V sb. "Nekotoryye vopr. tekhnol. proiz-va, turbin". [Tr. Leningr. metallich. z-da, no. 7]. Moscow - Leningrad, 1960, 98-107)

TEXT: The authors describe the technological processes and equipment for the machining of the assembled blade type rim and blades for the rims of radial turbines. They present the layouts of a fixture for the static balancing of the rims with an accuracy in the range of 5-25 g/cm and of a swivel device for the milling of the blade channel and its flaring from the two ends. There are 6 figures. X

I. Briskman

[Abstracter's note: Complete translation]

Card 1/1

89741

1.5100

2908

S/114/61/000/003/002/002
E194/E235

AUTHORS: Dolgov, V. A., Vakhter, M. L. and Tsvetkov, A. V.,
Engineers

TITLE: A Copying-Grinding Machine for Machining Turbine
Blades of Varying Profile

• PERIODICAL: Energomashinostroyeniye, 1961, No. 3, pp. 32-34

TEXT: The most complicated operation in blade manufacture is grinding the blade profile. Until recently, at the Leningradskiy metallicheskiy zavod (Leningrad Metal Works) and other turbine manufacturers this operation has been carried out manually. The work is heavy and the metal is annealed locally because the pressure applied to the grinding wheel is uneven. In recent years many attempts have been made to mechanize the operation. After prolonged experimental and development work, the Leningrad Metal Works (LMZ) has developed two machines for grinding large turbine blades of variable profile. One of these machines was designed by the Leningrad Branch of VPTI (Designer M. A. Borukhzon) the other was developed at the LMZ; both give good and stable results. Deviations permitted from the theoretical profile do not exceed

X

Card 178

89741.

S/114/61/000/C03/002/002
E194/E235

X

A Copying-Grinding Machine for Machining Turbine Blades of Varying Profile

0.1-0.15 mm. The copying and grinding machine designed by the Leningrad branch of VPTI is based on mechanical copying of a model. The main feed of model and blank is provided through a special drive and distribution mechanism and the profiling feed is derived from the pressure of the model on a copying roller. The grinding is performed in transverse strokes and transition from one stroke to the next occurs on the overrun. Outline drawings of the machine are given in Fig. 1 and a detailed description of the mechanism is given. The copying roller 10 bears on the model 11 which operates on the grinding wheel 3 cutting the blank 2. The special drive 17 is provided for trimming the grinding wheel with an industrial diamond. The principles of operation are described. The method of grinding blades is illustrated in Fig. 2 the initial position of the blade and grinding wheel is shown in Fig. 2a. Blade section 1-2 is ground by rotating it round an axis, as point 2 is reached the cam mechanism arrests rotation and starts displacing the table so that the section 2-3 is ground. The feed

Card 2/8.

S/114/61/000/003⁸⁹⁷⁴¹/002/002
E194/E235

A Copying-Grinding Machine for Machining Turbine Blades of Varying Profile

is maintained constant to ensure evenness of finish by appropriate profiling of the cam. The cam is displaced relative to the blade whilst on the overrun section 3-4. Blades up to 780 mm long can be ground, the maximum diameter of the grinding wheel is 400 mm and the least diameter 320 mm. The number of double strokes of the operating table per minute is 7.5-45, the grinding wheel runs at a speed of 1440 r.p.m. and the overall dimensions of the machine, length, width and height are 2670 x 2140 x 2800 mm. A defect of the machine is that the grinding wheel wears during the process of grinding and this causes some error in the blade profile. The machine developed by the LMZ is then described, it is a special machine Type 1C-96 (1S-96) of the "Stankonstruktziya" Works which was modernized and made into a semi-automatic copying machine for grinding the backs of variable profile blades. The modernization consisted in reconstructing the polishing head and developing a device for turning the blade and model, in providing an oil cooling system and other minor reconstructions. An outline drawing

Card 3/8

89741

S/114/61/000/003/002/002
E194/E235

A Copying-Grinding Machine for Machining Turbine Blades of Varying Profile

of the machine is given in Fig. 3 and the construction is briefly described. It can deal with blades up to 760 mm long at a cutting speed of 25 m/sec, the table being displaced at a rate of 3250 mm/min. This machine has an abrasive belt which can make a cut up to 1 mm deep. The feed is controlled by a copying roller acting on the model. The amount of cross-feed depends on the shape of the blade and ranges from 1.5 to 4 mm. The pressure of the belt on the model is constant at 10 kg, the working part of the belt is 25 mm wide. The machine time for grinding a blade is 15-20 minutes depending upon the length and shape. A copious supply of cooling oil is provided during the grinding operation. The abrasive belts have a linen base with white electro-corundum of No. 46 grain size. The accuracy of the finished profile is within 0.1 mm over the length of the blade. This method of grinding has a number of advantages, it is very accurate, a good class 7 finish is obtained. The metal that is left on the blades after milling, 0.5-1 mm is removed in a single operation. The main difficulties with the

Card ~~4/8~~

89741

S/114/61/000/003/002/002
E194/E235

A Copying-Grinding Machine for Machining Turbine Blades of Varying Profile

machine are inadequate stability of the grinding belts and the high consumption of oil which must be frequently replaced because of contamination with cuttings and abrasives. Cooling with emulsion type lubricants is required and water resistant belts are needed. However, the use of automatic grinding has reduced the manufacturing costs and improved turbine efficiency. A full range of grinding machines for turbine blades should be developed. There are 3 figures and 3 tables.

X

Card ~~5/8~~

DOLGOV, V.A., inzh.; VAKHTER, M.L., inzh.; TSVETKOV, A.V., inzh.

Copying-grinding lathes for processing turbine blades of varying
shapes. Energomashinostroenie 7 no.3:32-34 Mr '61.

(MIRA 16:8)

(Lathes)

(Turbines--Blades)

DYADACHEN, N.I.; SARDUY, N. .; DUDOV, V.S.

Practice of using short-range libration in mining work
at the R. Luksemburg Mine. (ber. nach. Inst. G.M. no. 23413-28
163 [1978])

DOLGOV, V.A., inzh.

Experimental investigation of the distribution of temperature in
steel reinforced concrete span structures. Trudy TSNIIS no.37:271-
283 '60.

(MIRA 13:12)

(Bridges, Concrete)

DOLGOV, V.A., inzh.

~~_____~~
Designing combined span structures taking thermal stresses into
consideration. Transp. stroi. 10 no.10:49-51 0 '60. (MIRA 13:10)
(Thermal stresses) (Giriers)

AFANAS'YEV, P.M., inzh.; BORODICH, M.K., inzh.; DOLGOV, V.A., inzh.;
KOZLOV, V.V., inzh.

Manufacture of wire-reinforced concrete articles on the TP-906
unit in Krasnodar. Bet.i zhel.-bet. no.6:254-257 Je '61.
(MIRA 14:7)
(Krasnodar—Prestressed concrete)

DOLGOV, V.A.

Variability of shrews in the Oka River floodplain (Mammalia,
Soricidae). Biol. MOIP. Otd. biol. 68 no.4:135-140 J1-Ag '63.
(MIRA 16:10)

DOLGOV, V.A.; ROSSOLIMO, O.L.

Dental abnormalities in the wolf, *Canis lupus* Linnaeus,
1758. Acta theriolog 8 no.1/16:237-244 '64.

1. Zoological Museum of the M.V.Lomonosov State University,
Moscow.

DOLGOV, V.A.

Shrew *Sorex centralis* Thomas, 1911 (Mammalia, Soricidae) of the Soviet Union. Zool. zhur. 43 no.6:898-903 '64. (MIRA 17:12)

1. Zoological Museum of the Moscow State University.

L 09122-57 EWT(a)/EWT(m)/EMP(w) IJP(a) EM
ACC NR: AP6032139 SOURCE CODE: UR/0121/66/000/007/0019/0021 38
AUTHOR: Dolgov, V. A.; Basik, V. S.; Entin, I. Z.; Ye'limov, A. N.; Polyakov, Ye. Ye.
ORG: None
TITLE: Studying the stressed state of machine tool frame members by the photoelastic method 26
SOURCE: Stanki 1 instrument, no. 7, 1966, 19-21
TOPIC TAGS: photoelasticity, stress analysis, machine tool
ABSTRACT: The authors use the optical method for studying the stressed state of roll-turning lathe beds. This method can also be used for studying the overall stressed state of such a machine. This method makes it possible to determine experimentally the isoclinic parameter and main tangential stresses at a given point in the two-dimensional model of a cross section of the frame and to evaluate normal stresses on unloaded contours. "Stress division" is used to determine normal stresses at points lying within the cross section contour with respect to the isoclinic parameter and the main stress differences. This method is very useful for the experimental determination and selection of the optimum shape for the cross section of the bed. Orig. art. has: 3 figures.
SUB CODE: 13/ SUBM DATE: None/ ORIG REF: 004
Card 1/1 not UIC: 621.9-216.6:539.319.001.5

USSR/Cultivated Plants - Fruits, Berries.

11-8

Abs Jour : Dokl Akad. Nauk SSSR - Biol., No 9, 1958, 3549C

Author : Dalgov, V.F.

Inst : -

Title : New Dwarf Rootstocks of the Apple Tree.

Orig Pub : Izvestia, 1957, No 7, 106-107.

Abstract : A brief description of the new rootstocks for apple tree: dwarf-red leaved Paradise and semi dwarf- hybrid No 13-14 bred by V.I. Dudanovskiy is given in this paper. They produced a high degree of acclimatization in the cuttings from the nursery's first field and a high yield of standard seedlings from these varieties grafted on them. -- T.S. Fedosenko

Card 1/1

- 145 -

USSR/Cultivated Plants - Fruits. Berries.

M

Abs Jour : Ref Zhur Biol., No 12, 1958, 53802

Author : Dolgov, V.F.

Inst : -

Title : An Experiment in Growing Seedlings of the Dwarf Apple Tree.

Orig Pub : Sad. i ogorod, 1957, No 12, 39-42

Abstract : No abstract.

Card 1/1

DOLGOV, V. F.: Master Agric Sci (diss) -- "The growing of apple seedlings on new dwarf stock in the central zone of the USSR". Michurinsk, 1958. 23 pp
(Min Agric USSR, Fruit and Vegetable Inst im I. V. Michurin), 100 copies
(KL, No 4, 1959, 128)

DOLGOV, V.F., kand.sel'skokhonyaystvennykh nauk

Biological characteristics of new dwarf and semidwarf rootstock.
Agrobiologiya no.6:938-939 N-D '59. (MIRA 13:4)

1. Plodovovoshchnoy institut imeni I.V.Michurina, g.Michurinsk.
(Fruit culture)

MEKHTIYEV, Sh.F.; GORIN, V.A., redaktor; DOLGOV, V.I., redaktor; PEVNER,
M.I., tekhnicheskii redaktor

[Problems in the origin of petroleum and the formation of petroleum-
bearing strata in Azerbaijan] Voprosy proiskhozhdeniia nefti i formi-
rovaniia neftianyykh zasvezhei Azerbaidzhana. Baku, Izd-vo Akademii
nauk Azerbaidzhanskoi SSR, 1956. 317 p. (MIRA 10:3)
(Azerbaijan--Petroleum geology)

DOLGOV, V. K.

ARONOV, R. I. Kand. tekhn. nauk. dots. Nauchno-issledovatel'skiy institut po stroitel'stvu Ministerstva neftyanoy promyshlennosti i KAMERSHTEIN, A. G. - Kand. tekhn. nauk. i DOLGOV, V. K. - Inzhener i PETROV, I. P. - Inzhener

Izucheniye napryazheniy v krivolineynykh uchastkakh truboprovodov s ucheton zashchemleniya v grunte. Page 86

SO: Collection of Annotations of Scientific Research Work on Construction,
completed in 1950,
Moscow, 1951

PETROV, I.P., inzh., laureat Stalinskoy premii; DOLGOV, V.K., inzh., laureat Stalinskoy premii

Cold bending of pipes directly on the pipeline-laying site.
Trudy VNIIShtroinefti no.5:85-93 '53. (MIRA 12:2)
(Pipe bending)

DOLGOV, V.K., laureat Stalinskoy premii, inzhener; RAPPORT, Ya.A., inzhener.

Testing the actual rate of stress diminuation in metal pipe over a
period of time (cold relaxation of steel). Trudy VNII Strpinafti
no.6:82-92 '54. (MLRA 10:1)

(Strains and stresses) (Pipeline)

DOLGOV, V.K.

PETROV, I.P., laureat Stalinskoy premii; KAMERSHTEYN, A.G., laureat Stalinskoy premii; DOLGOV, V.K., laureat Stalinskoy premii; SNITKO, I.K., kandidat tekhnicheskikh nauk, redaktor; TOKER, A.M., tekhnicheskii redaktor

[Calculation of steel pressure pipe strength] Raschet napornykh stal'nykh truboprovodov na prochnost'. Moskva, Gos. izd-vo lit-ry po stroitel'stvu i arkhitekture, 1955. 165 p. (MLRA 8:7)
(Pipe, Steel)

ACC NR: AP7000330

SOURCE CODE: UR/04.13/66/000/022/0078/0079

INVENTOR: Tartakovskiy, M. B.; Pupko, I. D.; Dolgov, V. K.

ORG: none

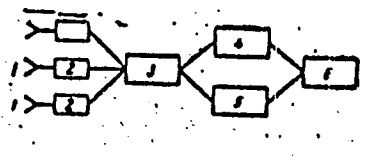
TITLE: A device for mass EKG examination of the population. Class 30, No. 188621

SOURCE: Izobreteniya, promyshlennye obraztsy, tovarnyye znaki, no. 22, 1966, 78-79

TOPIC TAGS: electrocardiography, heart rate, cardiovascular system

ABSTRACT: An Author Certificate has been issued for a device which contains electrodes, biopotential amplifiers, and power sources, and which has units for analyzing the temporary and amplitude relationships of EKG elements, a readout unit, and an automatic electromechanical lead commutator (see Fig. 1). It is designed for the

Fig. 1.



1 - Electrodes; 2 - biopotential amplifiers; 3 - electromechanical lead commutator; 4 - unit for analyzing temporary relationships of EKG elements; 5 - unit for analyzing amplitude relationships of EKG elements; 6 - readout unit.

Card 1/2

UDC: 615.471:616.12-073.96

ACC NR: AP7000330

automatic evaluation of EKG elements and for signal indication of deviations from selected EKG elements of examined EKG's with respect to normal EKG's. A model for analysis of the temporary relationships of EKG elements contains systems for identification of examined EKG intervals, comparison of the examined intervals with selected normal intervals, and signal indication during deviations of the values to be compared which exceed established values. A model for analysis of amplitude relationships of EKG elements includes systems for identification and amplitude comparison (with normal waves) of examined EKG waves, and systems for signal indication during deviations of the values to be compared which exceed established values. A model for signal indication of a deviation of the examined EKG elements from the established values and for reduction of the probability of an incorrect result consists of systems of coincidence, systems with different storage capacity, and a signal indicator. A device for automatic commutation of leads and establishment of a certain number of examined EKG cycles on each lead has systems for output of synchronized pulses, a counter of synchronized pulses, and a pitch selector. Orig. art. has: 1 figure. [SW]

SUB CODE: 06/ SUBM DATE: 20Jan64/ ATD PRESS: 5110

Card 2/2

DOLGOV, V. L.

Mining Engineering

Dissertation: "Study of the Operative Member of a Combined Cutter Working on the Principle of a Heavy Shearing Cut." Cand Tech Sci, Moscow Mining Inst imeni I. V. Stalin, 11 Mar 54. (Vechniyaya Moskva Moscow, 1 Mar 54)

SO: SUM 213, 20 Sep 1954

RODINOV, N.S.; DOLGOV, V.L.

Conference for coordinating the methods of determining the resistance of coals and rocks. Izv. vys. ucheb. zav. i razv. 4 no.4:133-134 Ap '61. (MIRA 14:6)
(Coal--Testing) (Rocks--Testing)

DOLGOV, V.L., kand.tekhn.nauk

Instrument for measuring stresses in the reducing gear of the
cutter-loader actuator. Ugol' Ukr. § no.1:25-26 Ja '61.
(MIRA 14:1)

(Coal mining machinery)

(Strain gauges)

DOLGOV, V.L.; ZAGORSKIY, S.L.

Improving the cutting tools on cutter-loader working in rock. Fiz.
mekh. svois., dav. i razr. gor. porcd. no.2:72-80 '63. (MIRA 17:1)

DOLGOV, V.L.

Analyzing the work of the actuating mechanism on PKS-1, PKS-2, PKS-3
coal cutter loaders. Fiz. mekh. svois., dav. i razr. gor. perod. no.
2:88-96 '63. (MIRA 17:1)

DOLGOV, V.L., kand.tekhn.nauk

Increasing the stability and equilibrium of the operation of
cutter-loaders. Mekh. i avtom. v gor. prom. no.3:92-106 '63.
(MIRA 16:10)

DOLGOV, V.L., kand. tekhn. nauk

Analysis of the operation of the working parts of cutter-
loaders for selective mining of coal and rock. Nauch. soob.
IDD 18:136-143 '63. (MIRA 16:11)

DOLGOV, V.I., kand.tekhn.nauk

Measuring the stresses acting upon roller bits. Nauch.

soob. IGD 22:148-154 '63.

(MIRA 17:5)

DOLGOV, V.M., inzh.; DALETSKIY, G.S., inzh.; ZAYTSEVA, A.K., inzh.

Use of photoelectric converters for measuring the surface of
plane figures with random profiles. Elektrotehnika 34 no.9:
66-68 S '63. (MIRA 16:11)

DOLGOV, V.M.

Effect of incomplete charging on blast furnace performance.

Izv. vys. ucheb. zav.; Chern. met. 7 no.7:43-47 '64

(MIRA 17:8)

1. Dneprodzerzhinskiy metallurgicheskiy zavod-rtuz.

LOGINOV, V.I.; CHECHURO, A.N.; DOLGOV, V.M.

Operation of a blast furnace with air tuyeres of variable
cross section. Izv. vys. ucheb. zav.; chern. met. 7 no.10:
22-27 '64. (MIRA 17:11)

1. Dneprodzerzhinskiy metallurgicheskiy zavod-vtuz.

DOLGOV, V.M.

Parameters of gas flow in the upper part of a blast furnace depending on the distribution of hearth gases. Izv. vyz. ustreb. zav.; Chern. met. 7 no.12:19-23 '64. (MIRA 18:1)

1. Dneprodzerzhinskiy metallurgicheskiy universitet.

DOLGOV, V.N.; KUKHARSKAYA, E.V.; ANDRMYEV, D.N.

Organosilicon esters of organosilicon acids. Izv. AN SSSR. Otd.
khim. nauk no.8:968-971 Ag '57. (MIRA 11:2)

1. Institut khimii silikatov AN SSSR.
(Silicon organic compounds) (Esters)

LOGINOV, V.I.; CHECHURO, A.N.; DOLGOV, V.M.

Blowing oxygen deep into a blast furnace hearth. Metallurg 7 no.12:
4-8 D '62. (MIRA 15:12)

1. Zavod im. Dzerzhinskogo i Dneprodzerzhinskiy zavod-vtuz.
(Blast furnaces) (Oxygen--Industrial applications)

USSR/Pharmacology. Toxicology. Cholinergic Drugs V

bs Jour : Ref Zhur-Biol., No 8, 1958, 37558

Author : Dolgov V. S., Tarakanov V. I.

Inst : Moscow Veterinary Academy

Title : Effect of Atropine on the Cardio-Vascular System of Horses. (Deystviye atropina na serdechno-sosudistuyu sistemu u loshadey)

Orig Pub : Sb. nauchn. stud. Mosk. vet. acad., 1956, vyp 3, 22-31

Abstract : The experiments were conducted on horses. A 1% solution of atropine sulfate (1) was administered subcutaneously in doses of 0.5 to 10ml. When a dose of 0.5 ml of 1 was administered the maximal blood pressure (BP) rose by 7-17 mm on the mercury column, the minimal pressure by 5 to 7 mm, the P-Q section of the electrocardiogram

Card 1/2

USSR/Pharmacology. Toxicology. Cholinergic Drugs V

Abs Jour : Ref Zhur-Biol., No 8, 1958, 37558

Abstract : diminished by 0.05 seconds, the QR increased by 0.03 seconds, and the pulse rate increased from 32 to 40 pulsations. The administration of 1 ml of 1 produced a rise in the maximal BP by 8 to 12 mm on the mercury column, the minimal BP dropped by 9 to 17 mm, the PQ section on the electrocardiogram diminished by 0.08 seconds, the QR by 0.02 seconds, while the pulse rate did not change. After the administration of 1 in doses of 3 ml the maximal BP rose by 13 to 31 mm, the minimal by 20 to 30 mm. the PQ of the electrocardiogram was accelerated by 0.18 seconds, the RS by 0.12 seconds, and the pulse rate increased from 30 to 73 pulsations. It was noted that the effect of 1 is manifested stronger in animals with a dominant sympathetic nervous system.

Card 2/2

DYADCHENKIN, N.I.; SADOVY, I.P.; POLON, V.V.

Making large org with the use of electro-lysis. Mat. 1 (1960-61).
from no. 61-12-52. R-2 163. (MIRA 18.1)

L 58896-65 EPR/ENP(t)/ENP(b) Ps-4 LJP(s) JD/ICH/JT

UR/0286/65/000/012/0077/0077
669.721.5

ACCESSION NR: AP5019050

AUTHOR: Kovalev, I. G.; Mikhayev, I. N.; Dolgov, V. V.; Shapagin, B. V.;
Mishkin, V. L.

27
B

TITLE: High-strength magnesium alloy. Class 40, No. 172050

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 12, 1965, 77

TOPIC TAGS: magnesium alloy, high strength alloy, high strength magnesium alloy,
magnesium weldable alloy

ABSTRACT: This Author Certificate introduces a high-strength magnesium alloy con-
taining zinc, cadmium, and zirconium. In order to improve mechanical properties and
weldability, the alloy contains 2-4% zinc, 1-2% cadmium, 0.3-1% zirconium,
0.5-2% lanthanum, and the remainder is magnesium. [WW]

ASSOCIATION: Organizatsiya gosudarstvennogo komiteta po aviatsionnoy tekhnike
SSSR (Organization of the State Committee on Aviation Engineering, SSSR)

SUBMITTED: 03Oct63
NO REF SOV: 000

ENCL: 00
OTHER: 000

SUE CODE: MM, 65
ATD PRESS: 4051

Cord 1/1

YAZYCHKOV, M.F., starshiy nauchnyy sotrudnik; DOLGOV, V.V.

Response to M.A.Fedorov's article "Some data on the intermittent method of yarn wringing on cross-wound bobbins. Tekst.prom. 25 no.1:87-88 Ja '65. (MIRA 18:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut legkogo i tekstil'nogo mashinostroyeniya (for Yazychkov). 2. Nachal'nik otdela teplo tekhnicheskogo oborudovaniya Vsesoyuznogo nauchno-issledovatel'skogo instituta legkogo i tekstil'nogo mashinostroyeniya (for Dolgov).

L-32034-65 EMI(m)/EFP(c)/BWH(m)/EFP(a)-2/IMP(t)/IPR/ENP(b) Pr.4/Ps-1/Pu-4
IJP(c) JD/WN JG

S/0006/65/000/003/0051/0155

ACCESSION NO. AP006288

AUTHOR: Dolgov, V. V. (Engineer); Sudnitsyn, D. A. (Engineer)

TITLE: Hydrodynamic instability in boiling-water reactors

SOURCE: Teploenergetika, no. 1, 1965 51-55

TOPIC TAGS: boiling water reactor, uranium graphite reactor, heat transfer, hydrodynamic stability, flow pulsation, reactor cooling

ABSTRACT: Experiments were conducted in order to establish the conditions for hydrodynamic stability in a boiling-water uranium-graphite reactor. Two series of tests were made using a reactor fuel-element assembly mockup consisting of four electrically heated, water-cooled tubes (220 mm long with a 9 mm ID). In the first series of tests, at a given constant pressure, water flow rate and heat flux in the test section, the water inlet temperature was gradually increased (at intervals) until flow pulsation occurred. In the second series of tests, the use of throttle plates of 5.00--2.65 mm ID for pulsation damping was investigated. The results show that other conditions being equal, reduction in heat flux, increase in pressure, and increase in

Card 1/2

L 32034-65

ACCESSION NR: AP5006298

mass velocity result in increased stability. At pressures of 13.2×10^4 , 15.6×10^4 , and 17.45×10^4 n/m², flow pulsation occurred only at combinations of small inlet temperatures and high heat fluxes. The pulsations originated at a low inlet temperature by weight/steam content at the pressures. A water/steam-water mixture of 1.1-1.2% produced stable flow under throttle plates of 0.6 mm ID. produced stable flow under regulated conditions. The results are applicable to boiling-water reactors with a core height of as much as 2-2.5 m. It is possible that reactors with higher cores will be subject to flow pulsations under certain conditions. Orig. art. has 3 figures and 1 table.

ASSOCIATION: none

SUBMITTED: 1974

ENCL: 1

NO REF SOV: 004

OTHER: 100

Card 2/2

PART I RARE EXPLOITATION 307/1/64

Технологическое освоение редких металлов. Изд. Москва, 1977
Редкие металлы и сплавы: труды... [Rare Metals and Alloys: Transactions of the
First All-Union Conference on Rare-Metal Alloys] Москва, Metallurgizdat, 1962.
136 p. 3,50 copies printed.

Специализированные лаборатории редких металлов. Институт металлургии, ЦИИ
Комиссия по редким металлам при Академии Наук СССР.

Ed.: I. I. Buzovskiy, Ed. of Publishing House: O. M. Kuznetsov, Tech. Ed.:
P. A. Zolotarev, 1977.

PURPOSE: This collection of articles is intended for metallurgical engineers,
physicists, and workers in the machine-building and radio-engineering industries.
It may also be used by students of schools of higher education.

CONTENTS: The collection contains technical papers which were presented and dis-
cussed at the First All-Union Conference on Rare-Metal Alloys, held in the in-
stitute of Metallurgy, Academy of Sciences USSR in November 1977. Results of
investigations of rare-metal alloys, titanium, and copper-base alloys with ad-
ditions of rare metals are presented and discussed along with investigations of
zirconium, vanadium, niobium, and their alloys. The effect of rare-earth metals
on properties of magnesium alloys and steels is analyzed. The use of rhodium
as a dehydrating catalyst, electrical properties of rare-metal alloys, and the ef-
fect of the addition of certain elements on the properties of heat-resistant
steels is analyzed and alloys with special physical properties (particularly
superconducting alloys) are discussed. Biographical notes are included. Soviet
and non-Soviet references accompany some of the articles.

PART II. TITANIUM AND COPPER-BASE
ALLOYS WITH RARE-METAL ADDITIONS

Rare Metals (cont.)

Lebedev, P. I., I. G. Kozlov, and O. V. Smol'yanova. Wrought Magnesium Alloys
with Rare-Earth Metals 209

Tikhonov, N. M., I. A. Blokhina, and I. A. Afanas'yeva. Magnesium Casting Alloys
with Rare-Earth Metals 219

Dylov, M. Ye., N. V. Mal'tsev, E. A. Belykh, E. M. Piskunova, and I. A.
Berytina. Investigation of Magnesium Alloys Containing Rhodium 227

Afanas'yeva, Ye. Ye. Magnesium Alloys with Rare Metals 240

Khilko, I. M., and V. I. Zhukov. Effect of Rare-Earth and Alkali-Earth
Metals on Mechanical Properties of Magnesium Alloys of the Magnesium-Magne-
sium and Magnesium-Magnesium-Cerium Systems 259

PART V. RARE METALS IN STEELS

Bashkova, S. Ye. Effect of Rare-Earth Metals on Sulfur Distribution and
Sulfur Segregation in Chromium-Nickel-Molybdenum Steel 269

Card 6/8

DOLGOV, V.V.; KOZLOV, V.Ya.; KOCHETKOV, L.A.; SUDNITSYN, O.A.;
USHAKOV, G.N.

[Startup conditions of an atomic power plant with super-
heated steam generated in a uranium-graphite reactor]
Izuchenie puskovykh rezhimov elektrostantsii s uran-grafi-
tovym reaktorom s peregrevom para. Moskva, Glav.upr.po
ispol'zovaniyu atomnoi energii, 1960. 14 p. (MIRA 17:1)

82280

S/089/60/009/01/02/011
B014/B070

21.1920
AUTHORS:

Dolgov, V. V., Kozlov, V. Ya., Kochetkov, L. A.,
Sudnitsyn, O. A., Ushakov, G. N.

TITLE:

Investigation of the Starting Conditions of an ¹⁹Atomic
Power Station With a Uranium Graphite Reactor Working
With Superheated Steam ¹⁹

PERIODICAL: Atomnaya energiya, 1960, Vol. 9, No. 1, pp. 10-15

TEXT: In a specially adapted steam-to-water loop of the first Soviet nuclear power station, the investigation mentioned in the title was carried out by three methods, where the steam was generated in the reactor of the power station. The heat engineering parameters were measured by means of the arrangement shown in Fig. 1. The analysis of the methods applied must satisfy the following requirements: (a) The method applied at the start must permit a rapid rise from zero to the rated power. (b) Under the transient conditions the maximum temperature of the fuel elements must not exceed the temperature which the fuel elements have at

Card 1/3

82280

S/089/60/009/01/02/011
B014/B070

Investigation of the Starting Conditions
of an Atomic Power Station With a Uranium
Graphite Reactor Working With Superheated Steam

the rated power. (c) Under the transient conditions, it must be possible for the temperature of the fuel elements to be continuously increased. (d) The method applied at the start must require minimum operation of the technological equipment. In the first method, the transient is characterized by the following: (a) The temperature of the fuel elements can be increased by 100 - 150°C in a minute. (b) The transition to superheating does not take place simultaneously in the various channels of the steam-to-water loop. (c) In the secondary cycle, a marked change of pressure takes place, which necessitates an intensive blowing of this loop. During the transient the second method produces a definite cooling of the channels in which the steam is generated. Thus, the whole transition takes place with a minimum of reactor power. With the third method it is possible to prevent an upward temperature jump by lowering the reactor power from the moment of transition to superheating conditions. The abrupt fall of temperature is shortened by a smaller reduction of the reactor power and the blowing through of the channels in which the steam is generated. All results are graphically represented.



Card 2/3

Investigation of the Starting Conditions
of an Atomic Power Station With a Uranium
Graphite Reactor Working With Superheated Steam

S/089/60/009/01/02/011
B014/B070 82280

A team of engineers under P. I. Aleshchenkov participated in the solution
of the technical problems. A. K. Krasin and A. N. Grigor'yants followed
the work with interest. There are 7 figures and 3 Soviet references. 4

SUBMITTED: August 17, 1959

Card 3/3

DOLGOV, V. V., KOZLOV, V. Ya., KOCHETKOV, L. A., SUDNITSYN, O. A., SERGEYEV, V. V.
and USHAKOV, G. N.

"Single-Pass Superheat Experimental Set-Up at the First Atomic Power
Station Reactor."

report presented at the IAEA Symposium on Power Reactor Experiments in Vienna
Austria, 23-27 Oct 1961.

(report presented by I. I. Bondarenko)

DOLGOV, Ye.G.; PIL'GER, I.I.

Neurovegetative changes in children subjected to roentgen irradiation for epilation. Med. rad. 5 no.12:10-12 '60. (MIRA 14:3)

(HAIR, REMOVAL OF)

(NERVOUS SYSTEM, AUTONOMIC--DISEASES)

(X RAYS--PHYSIOLOGICAL EFFECT)

DOLGOV, Ye.G.

Experimental data on the effect of antibiotics on certain manifestations of acute radiation sickness. Antibiotiki 6 no.5:402-406 My '61.
(MIRA 14:7)

1. Kafedra rentgenologii i meditsinskoy radiologii Semipalatinskogo meditsinskogo instituta.
(RADIATION SICKNESS) (ANTIBIOTICS)

DOLGOV, Ye.G.

Characteristics of the action of vitamin B₆ against radiation
in acute experimental radiation injury. Med.rad. 6 no.8:32-
36 Ag '61. (MIRA 14:8)

1. Iz kafedry rentgenologii i meditsinskoy radiologii Semi-
palatinskogo meditsinskogo instituta.
(PYRIDOXINE) (RADIATION SICKNESS)

PISHCHAGINA, L.A.; DOLGOV, Ye.G.; KARAMENDIN, I.I.; MARKELOVA, N.M.

Mass medical examination of workers on state ~~stock~~breeding farms.
Zdrav. Kazakh. 21 no.5:3-5 '61. (MIRA 15:2)

1. Iz Semipalatinskogo meditsinskogo instituta.
(AGRICULTURAL WORKERS DISEASES AND HYGIENE)
(MEDICAL SCREENING)

DOLGOW, Ye.G.

Dynamics of changes in tissue sorption properties after the action of
γ-rays on the organism. Biul. eksp. biol. i med. 51 no.4:52-56
Ap '61. (MIRA 14:8)

1. Iz kafedry rentgenologii i meditsinskoy radiologii Semipalatinskogo
meditsinskogo instituta (dir. - dotsent K.Ch.Chuvakov). Predstavlena
deystvitel'nyy chlenom AMN SSSR V.V.Parinym.
(GAMMA RAYS--PHYSIOLOGICAL EFFECT)

DOLGOV, Ye. G.

Effect of the secretion from frog skin glands on tissue permeability to vital stains in experimental acute radiation effects. Biul. eksp. biol. i med. 52 no.10:47-50 0 '61. (MIRA 15:1)

1. Iz kafedry rentgenologii i meditsinskoy radiologii Semipalatinskogo meditsinskogo instituta (dir. - dotsent K.Ch.Chuvakov). Predstavlena deystviem chlenom AMN SSSR A.V.Lebedinskim.
(RADIATION PHYSIOLOGICAL EFFECT) (VENOM PHYSIOLOGICAL EFFECT)
(STAINS AND STAINING (MICROSCOPY))